

## **CHAPTER 10**

### **INCINERATORS**

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#### **10-1. Minimum maintenance activities for incinerators**

The tables located at the end of this chapter indicate items which must be performed to maintain systems and equipment as a minimum level of operational readiness. The listed action items should be supplemented by manufacturer-recommended maintenance activities and procedures for specific pieces of equipment. Maintenance actions included in this section are for various modes of operation, subsystems, or components. Table 10-1 provides maintenance information for incinerators. Table 10-2 provides maintenance information for incineration system instrumentation and electrical systems.

#### **10-2. General maintenance procedures for incinerators**

See the equipment manufacturer's data for specific instructions regarding maintenance of components associated with incinerators.

Table 10-1. Incinerator

<b>Incinerator</b>	
<i>Action</i>	<i>Frequency</i>
<b>Combustion Unit</b>	
Check underfire air covers and supply tubes for clogging (excessively oxidized air covers or those with holes burned in them should be replaced).	3 mos
Remove inspection plates and inspect the underfire air manifolds.	3 mos
Check the door gasket for wear or fraying.	6 mos
Check door hinges and lubricate as required.	6 mos
<b>Auxiliary Burner (Gas)</b>	
Check spark plug and flame rod for fouling or cracked ceramic.	3 mos
Check gas pilot during operation.	3 mos
Check gas and air cocks, main gas regulator, and gas solenoid valve.	3 mos
Check gas burner operation.	3 mos
<b>Induced Draft Fan</b>	
Clean and wipe down fan assemblies, including motors, drives, and mountings. Inspect the fan assemblies for correct operation. Check for undue noise or vibration that could indicate possible malfunctions. Correct and report deficiencies.	6 mos
Remove inspection caps on the top of the bearing and be sure oil rings turn and carry oil.	6 mos
Change the oil in accordance with the manufacturer's recommendation.	6 mos
Check and tighten bolts aligning fan wheel on the shaft.	6 mos
Check and tighten pedestal holding bolts.	6 mos
<b>Flue and Stack</b>	
Inspect for a residue buildup. Clean as required.	3 mos
Inspect and clean spark screen.	3 mos
Inspect for loose joints or damaged refractory. Report any discrepancies to supervisor.	6 mos

Table 10-2. Incineration system instrumentation and electrical

<b>Incineration System Instrumentation &amp; Electrical</b>	
<i>Action</i>	<i>Frequency</i>
<b>Control Switches</b>	
Check low limit and high gas pressure switches and gas safety shutoff.	3 mos
Check tubing to air pressure switches for blocking.	yr
<b>Thermocouples</b>	
Check thermocouple shields for cracks or holes.	6 mos
<b>Indicators</b>	
Check the operation of all indicating meters and lights while the unit is in operation. Replace defective meters and lights as required.	6 mos
<b>Control Cabinet</b>	
Ensure that the control cabinet doors are securely closed at the end of each frequency to prevent tampering and migration of dust and moisture into the cabinet.	6 mos
<b>Transmitters and Controllers</b>	
Calibrate and adjust in accordance with the manufacturer's recommendations.	mo
<b>Thermometers</b>	
Check for accuracy. Remove thermometers from their wells and check against calibrated thermometer in controlled temperature bath.	yr
<b>Pressure Gauges</b>	
Isolate pressure gauge by closing the proper valves. Remove and check in a fixture against a calibrated gauge. Adjust as required following equipment manufacturer's instructions.	yr
<b>Motors</b>	
Check and clean cooling airflow passages on electric motors as necessary so that nothing obstructs airflow.	6 mos
<b>All Electrical Devices</b>	
Check, clean, and tighten terminals at motors, starters, disconnect switches, etc.	6 mos
<b>Wiring</b>	
Check insulation on conductors in starters, switches, and junction boxes at motors for cracks, cuts, or abrasions. Replace wiring as required and correct cause of damage.	6 mos